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**Ganesan et al.**

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(54) **PRINthead INCLUDING AN ASSEMBLY  
FOR CLEANING A LENS AND A  
DISPLACEABLE LIGHT-EMITTING DIODE  
ASSEMBLY AND METHODS THEREOF**

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**G03G 21/00** (2006.01)

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(58) **Field of Classification Search**

None

See application file for complete search history.

(56) **References Cited**

#### **U.S. PATENT DOCUMENTS**

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(57) **ABSTRACT**

A printhead for a device capable of printing, including: a frame; a light-emitting diode (LED) assembly including a housing engaged with the frame, a plurality of LEDs one the housing and extending in a first transverse direction, and at least one lens parallel to the plurality of LEDs in the first transverse direction and arranged to focus light from the LEDs; and a displacement assembly connected to the frame and engaged with the LED assembly and arranged to displace the LED assembly, with respect to the frame to a first position for an operating mode for the printhead, in which light from the plurality of LEDs illuminates media passing through the printbar in first or second process directions orthogonal to the first transverse direction and to a second position for a cleaning mode for the printhead, in which a cleaning operation for the at least one lens is enabled.

**9 Claims, 7 Drawing Sheets**

